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<b>(21) International Application Number:</b> PCT/US97/22089  <b>(22) International Filing Date:</b> 25 November 1997 (25.11.97)  <b>(30) Priority Data:</b> 08/756,444 26 November 1996 (26.11.96) US  <b>(71)(72) Applicants and Inventors:</b> PETRUZZI, James, Daniel [US/US]; Suite 820, 13760 Noel Road, Dallas, TX 75240 (US). MASON, Robert, Michael [US/US]; Suite 820, 13760 Noel Road, Dallas, TX 75240 (US).  <b>(74) Agent:</b> MASON & PETRUZZI; Suite 402W, 13601 Preston Road, Dallas, TX 75240 (US).		<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>
<b>(54) Title:</b> A MACHINE FOR DRAFTING A PATENT APPLICATION AND PROCESS FOR DOING SAME  <b>(57) Abstract</b>  A machine and method for drafting a patent application has a keyboard, mouse, display, printer, and a computer for receiving and transmitting data. The computer requests and stores information regarding the invention including, if appropriate: 1) qualities and benefits (QAB) of the invention over the prior technology; 2) primary elements (PE) of the invention that define the invention apart from prior technology; 3) secondary elements (SE) of the invention that may be important but not necessary to define over the prior technology; and 4) substitute elements (SUB) of the invention that may be substituted or modified in an effort to avoid the primary and secondary elements but not depart from the invention. The QAB are requested and stored before the objects of the invention are drafted, the PE are requested and stored before the independent claims are drafted, the SE and SUB are requested and stored before the dependent claims are drafted, the independent claims are drafted before the summary of the invention is drafted, the independent claims are drafted before the dependent claims are drafted, the dependent claims are drafted before the abstract of the disclosure is drafted, and all claims are drafted before the detailed description of the preferred embodiment is drafted. The sections are drafted in a predetermined order prohibiting jumping ahead to draft a later section. At many sections, initial draft text, examples, samples, legal material, etc. are available to the user. A final patent application is compiled by combining the drafted sections with predetermined text.		

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## **A machine for drafting a patent application and process for doing same**

### Background of the Invention

This invention relates generally to the field of inventions, and more particularly to a machine for drafting a patent application and process for doing same.

Applications for patents to protect inventors' ideas are filed with the United States Patent and Trademark Office and with other patent offices throughout the world. Traditionally, an inventor seeks the assistance of a trained patent application draftsman -- either a patent attorney or patent agent in the United States or the equivalent in foreign countries. Without a patent application on file with the Patent Office, the laws do not allow the term *patent pending* or similar indicia to be placed on a product anticipated to be covered by a patent. The term patent pending is considered of importance as it conveys the patent status to potential copiers and the public. Further, many companies otherwise interested in licensing rights to manufacture from the inventor are unwilling to recognize the inventor's creative contribution in the form of payment unless an application for patent has been made to the patent office.

Patent applications have been drafted and submitted to the Patent Office on behalf of inventors by patent attorneys and patent agents since the first person was certified to act on behalf of an inventor by the U. S. Patent Office on August 3, 1894. Before that time and since, inventors have also represented themselves and prepared their own patent applications to the Patent Office.

Patent attorneys, patent agents and individual applicants have a variety of methods for application drafting. In addition, there are a number of books available on patent law, patent office practice, patent examiners' procedure and even the drafting of patent applications. Further, there is a computer software application designed to assist the individual inventor in preparing a patent application entitled *Patent It Yourself* available from Nolo Press in California.

Patent attorneys and patent agents charge the inventor a substantial amount of money for the attorney's or agent's education, experience, and knowledge in application drafting. Often, this amount of money exceeds many thousands of dollars and is cost prohibitive for the inventor. If the inventor's expense is paid for by a corporation for one reason or another, such as an obligation to assign the invention to the corporation, the corporation's expense may be unduly burdensome when multiplied by the number of inventions on which it wishes to file applications for patent protection, in which case patent protection may not be sought for all inventions.

Further, there are problems inherent in the application process based on the inventor trying to teach the attorney or agent sufficient information concerning the invention so that proper depth and breadth of protection is sought through application for patent. It is often only after a patent has been issued and is litigated in a court of law that it comes to light that the inventor contemplated aspects of the invention that the attorney or agent failed to realize, failed to appreciate the importance of, or failed to solicit from the inventor, resulting in the aspect(s) of the invention being left unprotected -- and that may be the very aspect over which an otherwise illegal copier is able to avoid liability.

The books on patent law, patent office rules and regulation, and patent examining procedure do little to help an inventor prepare a patent application. The patent application drafting books fall into two categories: 1) those written for attorneys and agents; and 2) those written for the lay person. The books written for the lay person (often written by attorneys or agents) make the explanation of drafting a patent application so difficult and involved that the lay person often throws up his or her hands in frustration and contacts the author of the book to draft the application. In addition, the books currently available include information unnecessary to the drafting of the patent application, such as patent prosecution, licensing, foreign prosecution, invention marketing, etc. Moreover, even if the inventor segregated the application information and tried to understand the application process from the book, without experience and training, certain sections of the patent application are perceived to be easier to draft than other sections. The average draft-it-yourself inventor is often too tempted to skip first to the perceived easier sections and later return to the others. This procedure using a book all too often results in an application unsuitable for filing with the Patent Office. Of course, the books written for the patent attorney or agent are often far too detailed for the inventor's needs and contain extraneous information not necessary for the patent application drafting.

The computer software designed for the draft-it-yourself inventor suffers from the same shortcomings: difficult for the inventor to understand the essentials of drafting a patent application; and the ability to skip from section to section in no set order resulting in an unsuitable application. Further no method of analysis is provided to the inventor for developing the proper understanding of

his invention for purposes of the application.

### Summary of the Invention

The primary object of the present invention is to provide an improved computer based machine to aid in drafting a patent application.

Another object of the invention is to provide an interactive, computer machine that prompts a user for appropriate information useful in drafting a application for letters patent.

Another object of the invention is to provide a method of preparing a patent application that is sequentially based one section upon another.

A further object of the invention is to provide a method and machine to aid in preparing an application for letters patent that significantly reduces and may even avoid the expense of employing a patent attorney or agent.

Yet another object of the invention is to provide a machine and method for patent application preparation that avoids the necessity to educate a third party of the substance of an invention.

Still yet another object of the invention is to provide a machine and method for patent application preparation that does not require significant knowledge of substantive patent law.

Another object of the invention is to provide a machine and method for patent application preparation that automatically incorporates legal requirements without the need to consult a patent attorney or patent agent.

Another object of the invention is to provide easier and cheaper access to the patent office while reducing or avoiding the need of a patent attorney or patent agent.

A further object of the invention is to provide easy and inexpensive access to *patent pending* status for an inventor.

Yet another object of the invention is to provide a method of analyzing and presenting an invention in the form appropriate for filing with the Patent and Trademark Office.

Still yet another object of the invention is to provide a computer based machine to aid in drafting a patent application that automatically drafts portions of a patent application based upon user input.

Other objects and advantages of the present invention will become apparent from the following descriptions, taken in connection with the accompanying drawings, wherein, by way of illustration and example, an embodiment of the present invention is disclosed.

In the preferred embodiment, a machine for drafting a patent application comprises an input device such as a keyboard or mouse, an output device such as a display or printer, and a computer for receiving data from the input devices and for transmitting data to the output devices. The computer also stores program steps for program control and manipulates data in memory. The machine also requests and stores information regarding the invention including, if appropriate: 1) qualities and benefits (QAB) of the invention over the prior technology; 2) primary elements (PE) of the invention that define the invention apart from prior technology; 3) secondary elements (SE) of the invention that may be important but not necessary to define over the prior technology; and 4) substitute elements (SUB) of the invention that may substituted or modified in an effort to avoid the primary and secondary elements but not depart from the

invention. The QAB are requested and stored before the objects of the invention are drafted, the PE, SE, and SUB are requested and stored before the claims are drafted, the claims are drafted before the summary of the invention, the abstract of the disclosure, and the detailed description of a proffered embodiment are drafted. Drafting the sections is in a predetermined order disallowing for jumping ahead to draft a later section.

In a preferred embodiment, a process for drafting a patent application comprises the steps of inputting data into a computer through a device such as a keyboard an mouse, and outputting data through a device such as a display or printer. The computer also is for storing program steps for program control and manipulating data in memory, including requesting and storing information regarding the invention including, when appropriate: 1) qualities and benefits (QAB) of the invention over the prior technology; 2) primary elements (PE) of the invention that define the invention apart form prior technology; 3) secondary elements (SE) of the invention that may be important but not necessary to define over the prior technology and; 4) substitute elements (SUB) of the invention that may substituted or modified in an effort to avoid the primary and secondary elements but not depart from the invention. The QAB are requested and stored before the objects of the invention are drafted, the PE, SE and SUB are requested and stored before the claims are drafted, the claims are drafted before the summary of the invention, the abstract of the disclosure, and the detailed description of a preferred embodiment are drafted. Drafting the sections are done in a predetermined order disallowing for jumping ahead to draft a later section.



In a preferred embodiment, a system for describing an innovation comprises at least an input to a computer memory for storage of information regarding a plurality of sections of a technical description, means for functionally linking said sections to one another in a predetermined fashion, output from a computer of each of said sections for revision by a user, storage of each revised section in said memory, means for compiling said sections in a predetermined order, and output from the computer of said compiled sections.

The drawings constitute a part of this specification and include exemplary embodiments to the invention, which may be embodied in various forms.

Brief Description of the Drawings

Figure 1 is a schematic diagram of a machine to implement the present invention.

Figure 2 is a representation of a computer screen in the illustrated embodiment of the invention representing a table of contents.

Figure 3 is a flow chart of the patent application sections in the order drafted in the illustrated embodiment of the invention.

Figure 4 is a representation of a computer screen in the illustrated embodiment of the invention representing an interface with the user in any of a number of patent application sections.

### Detailed Description of the Preferred Embodiments

Detailed descriptions of the preferred embodiment are provided herein. It is to be understood, however, that the present invention may be embodied in various forms. Therefore, specific details disclosed herein are not to be interpreted as limiting, but rather as a basis for the claims and as a representative basis for teaching one skilled in the art to employ the present invention in virtually any appropriately detailed system, structure or manner.

It is anticipated that the preferred embodiment of the present invention will be a commercial product sold under the trade name PatentPro™ to be used with the Windows '95™ or Windows NT™ operating system being run on an Intel™ Pentium™ processor, though modifications to particular operating systems and processors would be evident and not be beyond the present invention. Accordingly, the trade name will be referred to throughout this detailed description as the entire software program, the machine for implementing the program and the specific portion of the program and machine dedicated to the drafting of a patent application. The context of the term PatentPro™ will make obvious the intended reference.

Turning now to figure 1, there is shown an apparatus for carrying out the preferred embodiment of the invention. A computer 10 of the traditional type including ROM, RAM, a processor, etc. is shown operatively connected by wires to a display 12, keyboard 14, mouse 16 and printer 18, though a variety of connections means and input and output devices may be substituted without departing from the invention. The processor operates to control the program within the computer 10, and receive and store data from the input devices and

transmit data to the output devices. Notebook computers of similar configuration ( ROM, RAM, processor, etc.), can be used as well.

Upon initiating the program, which may take place in a variety of conventional ways and is not part of the present invention, the computer 10 causes to be displayed on display 12 a figure 20 substantially as shown in Figure 2. Figure 2 is likened to a Table of Contents in which a number a chapters represented through button figures 23 may be selected. It will be understood that the selection of a chapter or subject matter may be of a variety of selection means. In the preferred, commercial embodiment of the package PatentPro™, the chapter buttons 23 are the following, each to be explained in more detail below: Starting 31; Is It Patentable? 33; Tutorial 35; PatentPro™ 37; Forms 39; and Reference Library 41. In addition, there is expected a splash screen figure 25 which may be a variety of graphical representations, not the subject of the present invention, and an Exit button 27 useful in exiting PatentPro™.

Upon selecting Starting 31 by a variety of means, such as positioning a cursor over the button and clicking with a mouse button or selecting and depressing the Enter key on the keyboard, information such as Introduction to PatentPro™, Frequently Asked Questions, and Other Forms of Protection may be accessed through, for example a well known help system. Introduction to PatentPro™ may provide helpful information to an inventor regarding the use of PatentPro™, while Frequently Asked Questions may provide the questions and answers to general information concerning intellectual property, and patents in particular. Other Forms of Protection may provide information regarding

intellectual property such as trademarks, service marks, copyrights, trade dress, and trade secrets, design patents, plant patents, provisional patent applications, and the U. S. Patent Office's document disclosure program, to name a few.

Upon selecting Is It Patentable? 33 by a variety of means, such as positioning a cursor over the button and clicking with a mouse button or selecting and depressing the Enter key on the keyboard, information such as What can be Patented?, the New, Useful, and Non-obvious requirements, Avoiding Pitfalls, and Patent Searching may be accessed. What can be Patented? may provide information regarding the statutory classes of inventions allowable under the laws, while the New, Useful, and Non-obvious requirements may provide the legal requirements for patentability, for example through a presentation of Sections 101, 102, and 103 of Title 35 of the United States Code. Avoiding Pitfalls may more particularly point out the common mistakes that inventors often make that jeopardize the patentability of their inventions either in the United States or in other countries, and Patent Searching may present information useful in searching prior technology or patents in an effort to determine whether the inventor's invention is new, useful, and non-obvious, such as sources for searching patents and prior technology.

Upon selecting Tutorial 35 by a variety of means, such as positioning a cursor over the button and clicking with a mouse button or selecting and depressing the Enter key on the keyboard, a tutorial for the patent application drafting portion of the machine may be accessed. The tutorial may be presented in a variety of fashions, such as by video, audio, still graphics, or a combination, sufficient to familiarize with the machine and method of drafting a patent

application as later presented.

Operation upon selecting PatentPro™ 37 will be discussed in detail below.

Upon selecting Forms 39 by a variety of means, such as positioning a cursor over the button and clicking with a mouse button or selecting and depressing the Enter key on the keyboard, a number of legal forms useful in patent application drafting and submission to the U. S. Patent Office are provided. These forms may include a draft cover letter transmitting the patent application and associated papers to the Patent Office, a fee calculation form for calculating the proper fees necessary for submitting the patent application, an oath or declaration, a small entity status form, a recordation of assignment form, etc. In addition, it is contemplated that forms useful in dealing with industry may be provided including nondisclosure or confidentiality forms, and assignment forms. Further, PTO Form 1449 for submitting information in the form of patents, publications, etc. is provided. In accordance with an aspect of the invention, a machine and method for preparing an information disclosure statement is provided. The machine and method is similar to the machine and method described below with respect to the Background 120 section. Through the use of a wizard, the operator is prompted for references, a brief description of each reference, and the relevance of each reference with respect to the invention. After the information is inputted, the computer 10 automatically generates a first draft information disclosure statement by adding appropriate phrases and formatting, allowing the operator to complete the information disclosure statement.

Upon selecting Reference Library **41** by a variety of means, such as positioning a cursor over the button and clicking with a mouse button or selecting and depressing the Enter key on the keyboard, the full text of Title 35 of the United States Code, Title 37 of the Code of Federal Regulations and the Manual of Patent Examining Procedure may be provided in a variety of forms such as a help file format. Further, and in accordance with another aspect of the invention, issued patents may be available. In the preferred embodiment, there are nine categories of inventions including Communications, Electrical Components and Circuitry, Electrical Systems, Pharmaceutical, Chemical, Medical Devices, Agricultural, Transportation, and Photography. Upon selecting issued patents, the nine categories would be presented; upon choosing any category, a listing of inventions pertaining to the selected category is presented. Once a patent is selected, the full text and drawings of the patent is presented on display **12** and may be printed on printer **18**. In the preferred embodiment, the issued patents are selected from the patents listed in the Inventor's Hall of Fame inductees and may be updated each year, or as desired. Further, each page of each patent is available as a .tif file, though a variety of files may be used including a text file for the text of each patent. Once a patent page is displayed, an interface of known kind may be shown to allow paging forward or backward within each patent.

Upon selecting the button PatentPro™ **37**, the machine and method for drafting a patent application becomes evident. The user is then presented with options to review introductory remarks intended to help the user with PatentPro™ and the portion for drafting applications for patent, to continue

drafting an earlier application from the point at which the user left off previously, or to begin drafting a new application for patent. The machine and apparatus will be evident from a description of drafting a complete application from start to finish. In particular, and with reference to Figure 3, the user will be led through in a step-by-step fashion sections of a patent application to result in an application for patent as those are accepted for filing in the U. S. Patent Office and suitable for filing in many foreign country patent offices. Particularly, in the embodiment shown, the sections of the patent applications and in the order of drafting those sections are as follows: Inventors **50**; Title **60**; Related Applications **70**; Drawings **80**; Claims **100**; Abstract **110**; Background **120**; Objects **130**; Figures **140**; Summary **150**; Field **160**; and Detailed Description **170**. In addition, another section is drafted, though not a required or suggested for submission to the Patent Office, identified as Lists **90**. The Lists **90** section is to be drafted after Drawings **80** and before Claims **100**. Each section will be described in detail below. The order in which the sections are presented and drafted may vary, though in accordance with an important aspect of the invention, the program requests and stores information regarding the Lists **90** including, if appropriate: 1) qualities and benefits (QAB) of the invention over the prior technology; 2) primary elements (PE) of the invention that define the invention apart from prior technology; 3) secondary elements (SE) of the invention that may be important but not necessary to define over the prior technology; and 4) substitute elements (SUB) of the invention that may be substituted or modified in an effort to avoid the primary and secondary elements but not depart from the invention. The QAB are requested and stored before the



Objects **130** of the invention are drafted, the PE are requested and stored before the independent claims, part of Claims **100**, are drafted, the SE and SUB are requested and stored before the dependent claims, part of Claims **100**, are drafted, the independent claims are drafted before the Summary **150** of the invention is drafted, the independent claims are drafted before the dependent claims are drafted, the dependent claims are drafted before the Abstract **110** of the disclosure is drafted, and all Claims **100** are drafted before the Detailed Description **170** of a preferred embodiment is drafted. The sections are drafted in a predetermined order prohibiting jumping ahead to draft a later section.

Upon selecting a new patent application to draft, the user is presented with the first section Inventor **50**. In the preferred embodiment, the processor in computer **10** causes to be displayed at display **12** information, primarily textual in nature, and sometimes referred to as a dialogue box, (though also may be audio, visual, or a combination thereof), regarding the requirements to be a named inventor on a patent application and perhaps related information such as the duty of candor owed by inventors to the Patent Office. Upon reading the information, a user would continue and be presented with an interface designed to prompt for the number of inventors, and their respective names. Upon verifying the inventor information as correct, the computer **10** stores the information and presents the user, through display **12**, information reminding the user of the requirements to be a named inventor and allowing the user to go back and revise the inventor information, if necessary.

Upon completing inventor information, the computer **10** causes to be presented at display **12** introductory material, primarily textual in nature,

regarding the Title **60** section. This information may include the statutory classes of invention as referred to in 35 U.S.C. §101, as well as an explanation of each class, and combinations thereof. Examples of proper titles may also be given. After reading the introductory material within Title **60** section, the user is then presented with a display showing options for selecting a class or combination of classes for the invention. The computer **10** stores the selected class information and displays at display **12** a suggested title of the invention incorporating the class or combination of classes chosen, along with blanks indicating to the user that a descriptive title is to be inserted at the appropriate place.

A typical display for drafting information for many of the sections of the patent application is illustrated at Figure 4. The display where the user is to input data will be referred to as the drafting screen **200**, and will appear in many of the sections of the patent application. To aid the user in drafting a patent application and the particular section the user is currently drafting, the drafting screen **200** is equipped with a menu bar **210**, toolbar **220**, action bar **240**, and drafting area **290**, the operation and purpose of each will be described in more detail below.

The menu bar **210**, in the preferred embodiment, includes the following options: File **211**; Edit **212**; Format **213**; Action **214**; View **215**; Window **216**; and Help **217**. By selecting in a conventional manner File **211**, the following options are available: new; open; close; save; print; print set up; and exit; each of which operate in a conventional manner and similar to other software applications currently available. By selecting in a conventional manner Edit **212**, the

following options are available: undo; cut; copy; paste; find; find next; replace and spell check; each of which operate in a conventional manner and similar to other software applications currently available. By selecting in a conventional manner **Format 213**, the following options are available: bold; italics; underline; format paragraph, font/superscript, subscript . . . ; and insert page break; each of which operate in a conventional manner and similar to other software applications currently available. By selecting in a conventional manner **Action 214**, the following options are available: previous section; patent examples; sample phrases; technical terms; add-a-claim; show lists; show claims; detailed description method review; legal materials; to beginning of section; and to section checklist; each of which can be operated from the action bar **240**, and will be explained in more detail below. By selecting in a conventional manner **View 215**, the following options are available: toolbar; action bar; status bar; special characters and previous draft. The toolbar, status bar and action bar operate in a toggle mode to show or hide the respective bars (in the preferred embodiment, a status bar is provided indicative of the purpose of the icon in the toolbar **220** or action bar **240**, over which a cursor is positioned). Upon selecting the special characters the operator is presented with the ASCII character set, if available, in the currently used font. Upon selecting the previous draft, the user is shown the information previously drafted for the section in which the user is presently drafting a patent application section, the operation of which will become clearer upon the understanding of the function of the previous section operation from the action bar **240**. By selecting in a conventional manner **Window 216**, the following options are available: cascade; tile; arrange icons;

and a term indicative of the patent application section in which the operator is drafting; each of which operate in a conventional manner and similar to other software applications currently available. By selecting in a conventional manner Help 217, the following options are available: index; using help; and about PatentPro™; each of which operate in a conventional manner and similar to other software applications currently available.

The toolbar 220, in the preferred embodiment, includes icons for creating a new document 221; opening a file 222; saving a file 223; cutting to a clipboard selected material 224; copying to a clipboard selected material 225; pasting into a file the contents of a clipboard 226; sending a document or file to a printer 227; checking the spelling of words 228; undoing the last operation 229; finding information with selected criteria 230; bolding selected data 231; italicizing selected material 232; and underlining selected material 233; each of which operate in a conventional manner and similar to other software application currently available. In the preferred embodiment, the toolbar 220 also includes a safe 234 icon, which, upon selecting, will cause to be displayed the last version of the section the operator is currently drafting. The use of the this icon will become evident below.

The action bar 240, in the preferred, illustrated embodiment, includes graphical icons for the following functions: accessing a previously drafted section, either for viewing or for modifying that section 241; accessing examples of the current patent application being drafted based on issued patents 245; accessing sample phrases useful in drafting whatever patent application section is being drafted currently 249; presenting a listing of technical terms 253; help in

adding a claim and properly imbedding the added claim **257**; accessing previously drafted Lists **90** from analyzing the invention **261**; accessing previously drafted Claims **100** for the patent application **265**; reviewing a method for drafting the detailed description section **170** of the patent application **269**; accessing the legal materials relevant to the patent application section the operator is currently drafting **273**; going to the beginning of the current section to access the introductory materials for that section **277**; and going to the next section through a checklist for the patent application section currently being drafted **281**; not all of which may be active and accessed in each patent application section being drafted.

Returning now to the operation of the machine and flow of the method for drafting a patent application, when presented with the drafting screen **200** for the Title **60** section, the Patent Examples **245**, Sample Phrases **249**, Legal Materials **273**, To Introduction **277**, and To Next Section **281** icons are active. Upon selecting Patent Examples **245**, there is shown at display **12**, nine categories of inventions as described above with reference to the appendix of issued patents, and upon the operator selecting a category, a list of inventions is displayed. Upon selecting an invention, example titles derived from issued patents are displayed. At the same time as titles from patents as examples are displayed, in the preferred, illustrated embodiment, the operator may also access other sections of the same example patent to begin to understand the interconnection of the various patent application sections. It will be appreciated at this point that the patent examples may not be based on patents from the Inventors' Hall Of Fame, and may not be based on issued patents at all. The purpose of the Patent

Examples **245** is to provide the operator with examples from which they may draft their own patent application section.

Upon selecting Sample Phrases **249**, there is show at display **12** a number of statutory classes of invention and combinations thereof in a similar fashion to that described above following the display of the introductory material, with similar operation. That operation is to, once a sample phrase is selected, introduce that phrase with an indication of the place for modification at the drafting area **290** on the drafting screen **200** to complete the Title **60** section.

Upon selecting Legal Materials **273**, there is shown at display **12** the sections from Title 35 of the United States Code (35 U.S.C.), Chapter 37 of the Code of Federal Regulations (37 C.F.R.), and the Manual of Patent Examining Procedure (M.P.E.P.) applicable to the title of a patent application.

Upon selecting To Introduction **277**, the operator is presented with the introductory remarks for the Title **60**, from which the operator may continue on to the drafting screen **200** for the title with or without being first show the sample phrases **249** information, at which point the operator is presented with the information previously inputted at the drafting area **290** to continue with the machine and method for drafting a patent application.

Upon selecting To Next Section **281**, the computer causes to be displayed at display **12** final checklist information, primarily textual in nature, indicative of what the user should have completed in the Title **60** section. This final checklist display, in the preferred embodiment, allows for three choices from the operator: to go back to the drafting screen **200** for the Title **60** section allowing for modification of the previously inputted information; saving the theretofore

inputted information and being presented with the Table of Contents display; or continuing to the next section, Related Applications 70. Returning to the drafting screen 200 operates in a similar fashion to that described above. Accessing the Table of Contents display also operates as described above. Continuing to the next section, causes the computer 10 to save the operators input and causes to be displayed information, primarily textual in nature, regarding what is intended in the patent laws to be a related patent application.

After reading the introductory information regarding related patent applications, the operator is allowed to skip over drafting this section, as it is contemplated that many of the intended operators will not need to draft a section pertaining to pending related patent applications. However, in the event the operator chooses to draft a Related Application 70 section, the computer 10 causes to be displayed at display 12, a number of typical, sample phrases often used in one form or another to describe the relationship between the patent application currently being drafted and any pending related patent application. Upon selecting a sample phrase, the computer 10 causes that phrase to appear in the drafting area 290 in the drafting screen 200 available for editing by the operator. In the drafting screen 200 of the Related Applications 70 section, the Previous Section 241, Sample Phrases 249, Legal Materials 273, To Introduction 277, and To Next Section 281 icons are active.

Upon selecting the Previous Section 241 icon, the operator is presented with a list of sections previously drafted in the current patent application. In the preferred embodiment, the operator may select any previously drafted patent application section, except for the inventor information 50, and may either view

that section without the ability to modify the data in that section or may view the section allowing the modification of data in the section. In the event viewing only is selected, the chosen section is caused to be presented on the display 12, either at the same time as the information of the current section is displayed or in place thereof. In the event the modify option is selected, the computer causes to be stored all theretofore drafted information and presents the operator with the introductory materials of the selected section. The previously drafted information from that patent application section may be accessed by selecting the Safe 225 icon from the toolbar 220 or by selecting the Previous Draft from View 226 in the menu 210. Once in a patent application section drafting area 290, the operator may only proceed as described above. In particular, the operator may proceed from one section to the next in the previously described operation and order, though the operator may jump back to any previous section, i.e., the machine and method allows for jumping backwards, but only stepping forwards.

Upon selecting the Sample Phrases 249 icon, a display similar to that previously described showing typical sample phrases useful in describing the relationship between the currently drafted application and any previous pending or abandoned applications is provided at display 12 and operates in a similar fashion to that described above.

In accordance with the preferred embodiment, upon selecting the Legal Materials 273 icon, there is caused to be displayed at display 12 the portions of 35 U.S.C., 37 C.F.R., and the M.P.E.P. applicable to the section of a patent application whereat related applications are disclosed, in a similar fashion as to that described above regarding the Title 60 section. Upon selecting the To



Introduction **277** icon, the computer **10** causes to be displayed at display **12**, the introductory information, primarily textual in nature for the Related Applications **70** section to remind the operator the requirements of the related patent application section, in a similar fashion to that described regarding the Title **60** section. Also in a similar fashion as described with regard to the Title **60** section, operating the To Next Section **281** icon causes to be displayed at display **12**, a checklist for the Related Applications **70** section to remind the operator the requirements of related patent application section, and allows the operator to return to the drafting screen **200** for the Related Application **70** section, save the theretofore work and be shown the Table of Contents or proceed to the next section in the machine and method for drafting a patent application.

Upon continuing to the next section, the computer **10** causes to be displayed at display **12** introductory information, primarily textual in nature, regarding Drawings **80** of a patent application. This information may include the requirements for numbering, shading, suggestions for organization, etc. In the preferred embodiment, the Drawings **80** introductory material differs from other patent application drafting sections in that PatentPro™ does not provide a drafting screen for creating the drawings to be submitted with the patent application. PatentPro™ provides guidelines for creating the drawings and reminds the operator of drawings requirements useful in preparing at least provisional drawings to submit with a patent application. At the display of the introductory material for the Drawings **80**, the Go Back **214**, Sample Phrases **249**, Technical Terminology **253**, Legal Materials **277**, and To Next Section **281** icons are active.

The Go Back 214, Legal Materials 277, and To Next Section 281 icons operates in a similar manner to that described above with regard to the Related Application 70 section, except that the information displayed is tailored to the drawings of a patent application. Upon operating the Sample Phrases 249 icon, the computer 10 causes to be displayed at display 12 several brief descriptions of drawings and, upon selecting a particular one, displays a sample drawing of the type selected, such as a perspective, exploded, plan, schematic, or other type of drawing. Upon operating the Technical Terminology 253 icon, there is shown at display 12 a listing of technical terminology many patent attorneys and agents find useful when describing, for example, relationships and various structures. In the preferred embodiment, the terms are organized in a Help file format grouped in a logical manner.

Upon continuing to the next section, the computer 10 causes to be displayed at display 12 introductory material, primarily textual in nature, for the Lists 90 section. The Lists 90 section differs from many of the other sections in that the Lists 90 section is a section not required or desired to be submitted to the Patent Office as part of the patent application. However, in accordance with an important aspect of the invention, the following lists are requested and stored in the computer 10, in an effort to help the user analyze the invention for which a patent application is being drafted. In addition, the information contained in the Lists 90 section will form the basis of sections of the patent application the operator will draft at a later time, as will be evident below.

The Lists 90 section contains four lists: Qualities and Benefits (QAB) 92; Primary Elements (PE) 94; Secondary Elements (SE); and Substitute Elements

(SUB) 98. While these four lists are to carry out the preferred embodiment of the invention, it will be appreciated that any number of lists may be used for the substance of the analysis of the invention as described below. Further, the Lists 90 section may be omitted entirely and the substance of the analysis of the invention may be incorporated in other sections, for example the Claims 100, as appropriate. QAB 92 are the qualities and benefits of the invention for which a patent application is being drafted that differ from the qualities and benefits of other earlier technology, often termed prior art by patent attorneys and patent agents. The QAB 92 list may often be drafted by, pretending the operator is a sales person for the product or method, describing the benefits, advantages, and qualities of the invention that would lead a purchaser to purchase the invention over other technology otherwise available. The PE 94 list may be drafted by listing the elements of the invention that are responsible for the QAB 92, while making sure that the PE 94 define a complete, operative invention and define the invention in a way that does not also define the prior technology. The SE 96 list may be drafted by listing the elements of the invention that, while may not be necessary, may be of importance in a commercial or marketing manner. The SUB 98 list may be drafted by listing alternate ways in which to accomplish the objectives of the PE 92 and SE 94 listed elements. In this manner, the operator explores ways in which a potential competitor or copier may attempt to avoid or design around the invention. It will be understood that alternate ways of analyzing an invention may be utilized without departing for the present invention. The above is merely one illustrative embodiment for analysis of an invention and may be modified or incorporated into other sections without

departing from the present invention.

After reading the introductory material for the Lists **90** section the computer causes to be displayed at display **12** a drafting screen **200** for the Lists **90** section. In the preferred embodiment, the drafting area **290** of the drafting screen **200** in the Lists **90** section includes four drafting area accessible through four tabs located towards the top portion of the drafting area **290**. Upon selecting a tab, the drafting area for the respective list is displayed, along with a brief description of the purpose of each list QAB **92**, PE **94**, SE **96**, and SUB **98**. At the drafting screen **200** of the Lists **90** section, the Go Back **241**, Patent Examples **245**, Technical Terminology **253**, To Introduction **277**, and To Next Section **281** icons are active and each operate in a similar fashion to that described above, except tailored to the Lists **90** section.

Upon continuing to the next section, the computer **10** causes to be displayed at display **12** introductory material, primarily textual in nature, regarding the Claims **100** section of a patent application. After reading the introductory material, the computer displays a drafting screen **200** for the Claims **100**. Further, and in accordance with another aspect of the invention, the computer causes to be displayed at drafting area **290** first draft independent claims for the invention, one for each class of invention the operator chose and the computer **10** stored at the Title **60** section. In the preferred embodiment, the first draft claim(s) is (are) created by presenting a portion of the title relating to each class of invention from the Title **60** section followed by the word(s) "comprising" for a machine, article of manufacture, or composition of matter, or "comprising the steps" for a process followed by the PE **94** list, with a semicolon

(;), separating each element in the list, except that a semicolon (;) and the word "and" separates the last two elements in the PE 94 list. A period follows the last element in the PE 94 list. Each independent claim generated is assigned a separate alphabetical designation, e.g., the first independent claim is labeled A1 (which will have corresponding dependent claims A2, A3, A4, etc., if appropriate), the second independent claim is labeled B1 (which will have dependent claims B2, B3, B4, etc., if appropriate), etc.

At the draft screen 200 of the Claims 100 section, the Go Back 241, Patent Examples 245, Technical Terminology 253, Add-A-Claim 257, Show Lists 261, Legal Materials 273, To Introduction 277, and To Next Section 281 icons are active. The Go Back 241, Patent Examples 245, Technical Terminology 253, Legal Materials 273, To Introduction 277, and To Next Section 281 icons operate in a similar fashion as described above, except tailored to the Claims 100 section of a patent application.

Upon selecting the Add-A-Claim 257 icon, which may also be selected by a right mouse button depression in the preferred embodiment, a pull-down menu with the following choices appears: Add an independent claim; Add a dependent claim; and Help with adding claims. Upon choosing Help with adding claims, information, primarily textual in nature, is displayed helpful in understanding claims, their purpose, and using the Add-A-Claim 257 function. Upon choosing the Add an independent claim, the computer will present a first draft independent claim as described above, with the next in sequence alphabetical designation, such as C1. In the event the Title 60 section designated more than one class of invention, the operator is given the choice to create an independent claim for any

one of the classes. Upon choosing Add a dependent claim, the computer causes to be displayed at display 12 a listing of each independent claim drafted previously. The operator then chooses which independent claim from which the new added claim will depend. After choosing the independent claim series, i.e., A1, B1, C1, etc., the computer 10 will display the independent claim and each dependent claim, if any, that have been previously drafted in the selected series. The operator may then choose the new dependent claim to be added to depend from any of the claims in the chosen claim series. After selecting the claim from which the new added claim will depend, the operator may then select from a number of transitional phrases such as "including", "further comprising", "further comprising the steps of", etc. The computer 10 then causes to be included in the drafting area 290 of drafting screen 200 of the Claims 100 section a dependent claim properly following in the selected claim series for the operator to complete.

In the preferred embodiment, the computer displays the Lists 90 upon selecting the Show Lists 261 icon in a split screen format so that the operator may see the QAB 92, PE 94, SE 96, and SUB 98 lists and highlight and drag the selected text into the Claims 100 section. In this manner the operator will properly imbed claims containing the elements of the invention that patent attorneys and patent agents often consider the most important.

Upon continuing to the next section, the computer 10 causes to be displayed at display 12 introductory information, primarily textual in nature, regarding an Abstract 110 of the disclosure section of a patent application. After reading the introductory material, the computer 10 causes to be displayed at display 12 a drafting screen 200 for the Abstract 110 section. The computer 10

presents a first draft abstract to the operator at drafting area **290** by selecting the most imbedded claim from the Claims **100** section and reproducing the independent claim in that series as well as all other claims from which the most imbedded dependent claim depends and the most imbedded dependent claim. The computer **10** automatically separates each new claim by a period and begins each new sentence with a capital letter. Further, the computer **10** substitutes the word "the" for "said" and removes the word "means". In addition, the computer **10** adds the words "in the preferred embodiment" at the beginning of each new sentence. This procedure results in a first draft abstract from which the operator may modify and create a completed abstract.

At the drafting screen **200** for the Abstract **110**, the Go Back **241**, Patent Examples **245**, Show Lists **261**, Show Claims **265**, Legal Materials **273**, To Introduction **277**, and To Next Section **281** icons are active. The Go Back **241**, Patent Examples **245**, Show Lists **261**, Legal Materials **273**, and To Introduction **277** icons operate in a similar fashion to that described above, except tailored to the Abstract **110** section for a patent application.

In the preferred embodiment, upon selecting the Show Claims **265** icon, the computer **10** causes to be displayed at display **12** the claims prepared and stored at the Claims **100** section of the patent application, and may be selected by highlighting and dragged to the drafting area **290** in the drafting screen **200** for the Abstract **110** section of the patent application. Upon selecting the To Next Section **281** icon, the computer counts the number of words in the drafting area **290** of the Abstract **110** and reminds the operator if there appears more than a set amount, e.g., for the U. S. Patent Office, a maximum of 250 words is

preferred. If the maximum has been exceeded, the operator will be prompted to remove words from the drafting area **290** of the Abstract **110** by removing the more detailed description of the preferred embodiment or by removing some of the limitations appearing in the dependent claims. If the maximum has not been exceeded, the computer displays a checklist for the Abstract **110** section in a similar fashion as described above, except tailored to the Abstract **100** section of a patent application, and allows the operator to select the same options as described earlier from the checklist screen.

Upon continuing to the next section, the computer causes to be displayed at display **12** introductory material, primarily textual in nature, for the Background **120** section of a patent application. After reading the introductory material, the computer causes to be displayed a drafting screen **200** for the Background **120** section of a patent application. In the preferred embodiment, the drafting screen **200** displays three tabs at drafting area **290**, one each for the History of the Technology of the invention, a description of the Prior technology, and the Deficiencies in the Prior Technology. Each tab is accompanied by a fixed text area reminding the operator of the purpose of each section. At the drafting screen for the Background **120** section of the patent application, the Go Back **241**, Show Lists **261**, Legal Materials **273**, To Introduction **277**, and To Next Section **281** icons are active. The Go Back **241**, Show Lists **261**, Legal Materials **273**, To Introduction **277**, and To Next Section **281** icons operate in a similar fashion as described above, except that each is tailored to the Background **120** section of a patent application.

Upon continuing to the next section, the computer causes to be displayed



at display 12 introductory material, primarily textual in nature, for the Objects 130 of the invention section of a patent application. After reading the introductory material, the computer causes to be displayed at display 12 a drafting screen 200 for the Objects 130 of the invention. The computer 10 automatically generates a first draft Objects 130 section at drafting area 290 of the drafting screen 200 of the Objects 130 section by adding the phrase "The primary object of the invention is" and then presenting the first from the QAB 92 list; A modification such as "Another object of the invention is" precedes the second from the QAB 92 list; and so forth until all qualities and benefits from the QAB 92 list are incorporated into the first draft Objects 130 section of the invention. From there, the operator may modify the first draft until complete.

At the drafting screen 200 of the Objects 130 section the Go Back 241, Patent Examples 245, Legal Materials 273, To Introduction 277, and To Next Section 281 icons are active, and operate in a similar fashion as described above, except tailored to the Objects 130 section of the patent application.

Upon continuing to the next section, the computer causes to be displayed at display 12 introductory material, primarily textual in nature, for the Figures 140 section of a patent application, in which a brief description of the drawing is presented. After reading the introductory material, the computer causes to be displayed at display 12 a drafting screen 200 for the Figures 140 of the invention, at which the Go Back 241, Sample Phrases 249, Legal Materials 273, To Introduction 277, and To Next Section 281, are active and operate in a similar fashion as described above, except tailored to the Figures 140 section of a patent application. In addition to as described above, upon selecting a sample

phrase, the computer will insert the phrase into the drafting area **290** of the drafting screen **200**, with an indication of needed modification to complete the brief description of the drawings in the Figures **140** section of the patent application.

Upon continuing to the next section, the computer causes to be displayed at display **12** introductory material, primarily textual in nature, for the Summary **150** of the invention section of a patent application, in which a brief summary of the invention is presented. After reading the introductory material, the computer causes to be displayed at display **12** a drafting screen **200** for the Summary **150** of the invention, at which the Go Back **241**, Patent Examples **245**, Show Claims **265**, Legal Materials **273**, To Introduction **277**, and To Next Section **281**, are active and operate in a similar fashion as described above, except tailored to the Summary **150** section of a patent application.

Further, the computer **10** causes to be presented a first draft summary at the drafting area **290** of drafting screen **200** for the Summary **150** section. The first draft is generated having a paragraph corresponding to each independent claim from the Claims **100** section. The operator may then modify the first draft to complete the Summary **150** section of the patent application.

Upon continuing to the next section, the computer causes to be displayed at display **12** introductory material, primarily textual in nature, for the Field **160** section of a patent application, in which a brief field of the invention is presented. After reading the introductory material, the computer causes to be displayed at display **12** a drafting screen **200** for the Field **160** section of the invention, at which the Go Back **241**, Patent Examples **245**, Legal Materials **273**, To

Introduction **277**, and To Next Section **281**, are active and operate in a similar fashion as described above, except tailored to the Field **160** section of a patent application.

Further, the computer **10** causes to be presented a first draft field at the drafting area **290** of drafting screen **200** for the Field **160**. The first draft is generated using the Title **160** section information, and indicates to the operator how to complete the Field **160** section of the patent application. The operator may then modify the first draft to complete the Field **160** section of the patent application.

Upon continuing to the next section, the computer causes to be displayed at display **12** introductory material, primarily textual in nature, for the Detailed Description **170** section of a patent application, in which a detailed description of the preferred embodiment of carrying out the invention is presented. After reading the introductory material, the computer causes to be displayed at display **12** a drafting screen **200** for the Detailed Description **170** section of the invention, at which the Go Back **241**, Sample Phrases **249**, Technical Terminology **253**, Show Lists **261**, Show Claims **265**, Detailed Description Method **273**, Legal Materials **273**, To Introduction **277**, and To Next Section **281**, are active and operate in a similar fashion as described above, except tailored to the Field **160** section of a patent application. Upon selecting the Detailed Description Method **273** icon, a review of a method useful in organizing the detailed description is shown. This method may be of a number of different methods, and in the preferred embodiment includes: Describing what is old and already known from the drawings; Characterizing what is new, using wording of

the broadest independent claim; Describing in detail what is new, using the vocabulary established in the claims; Discussing the operation of the device or the flow of the method, including all of the alternative ways to practice the invention; Restating the advantages of the invention in a brief and succinct manner; and Defining broadly all critical terms.

Upon selecting the To Next Section **281** icon, the computer compares the words of the claims to the words in the Detailed Description **170** section and reminds the operator of any words in the claims not found in the detailed description, in an effort to remind the operator that the claims should find support in the detailed description. The operator is then given the option to go back to modify the detailed description in the drafting area **290** of the drafting screen **200**, or proceed as described above. Upon proceeding, the computer displays a checklist for the Detailed Description **170** section in a similar fashion as described above, except tailored to the Detailed Description **170** section of a patent application, and allows the operator to select the same options as described earlier from the checklist screen.

Upon continuing to the next section, the computer generates a first draft completed patent application and displays at display **12** the application for the operator to modify, if necessary. In the preferred embodiment, the computer automatically inserts at the appropriate places, standard phrases, paragraphs and formatting, as used by many patent attorneys and patent agents. Further, the completed draft application incorporates a footer indicative of the inventor names as inputted and stored at the Inventor **50** section and page number.

It will be recognized by those in the art that the invention may be modified to incorporate the patent laws and rules of any foreign country, and may be modified to be used in plant and design patents. Further the embodiment may be modified to be used in presenting any inventive idea whether patentable or not.

Further, it will be appreciated that certain sections may not be drafted at all or may be drafted in an order other than that described above and still be within the scope of the invention. For example, the Related Application 70, and Inventor 50 sections may be drafted at any time. In addition, dependent claims may not be necessary and may be omitted entirely. Further, certain sections may not be required by the Patent Office, or patent offices of foreign countries. These sections, such as the Background of the invention 120 and Objects 130 may therefore be omitted without departing from the scope of the present invention. It will be understood that if the Objects 130 is omitted, the QAB 92 list may also be omitted.

The foregoing embodiments are merely illustrative of the possible embodiments.

The full scope of the invention is defined only by the issued claims.

CLAIMS

What is claimed is:

1. A machine for drafting a patent application having at least claims, a summary of the invention, an abstract of the disclosure, and a detailed description of a preferred embodiment of the invention, said machine comprising:
  - one or more input devices, one or more output devices, and a computer with memory for receiving and storing data from the input devices, transmitting data to the output devices, and storing program steps for program control and manipulating data in memory;
  - the computer, through input and output devices, requests and, if appropriate, stores information regarding the invention including at least 1) primary elements (PE) of the invention that define the invention apart from prior technology 2) secondary elements (SE) of the invention that may be important but not necessary to define over the prior technology and 3) substitute elements (SUB) of the invention that may substitute or modify the PE and SE in an effort to avoid but not depart from the invention;
  - the computer requests and, if appropriate, stores PE, SE and SUB before the claims are drafted;
  - the claims are drafted before the summary of the invention, abstract, and the detailed description of a preferred embodiment of the invention is drafted; and
  - the computer requires drafting the sections in a predetermined order prohibiting jumping ahead to draft a latter section.

2. A machine as claimed in claim 1 further comprising:  
the computer, through input and output devices, requests and, if appropriate, stores information regarding the invention further including at least 4) qualities and benefits (QAB) of the invention over the prior technology wherein the QAB are requested and stored before objects of the invention are drafted.
3. A machine as claimed in claim 1 wherein the computer creates a draft independent claim based on the primary elements.
4. A machine as claimed in claim 1 wherein the computer creates a draft summary of the invention based on at least the primary elements.
5. A machine as claimed in claim 1 wherein the computer creates a draft abstract of the disclosure based on at least the primary elements and secondary elements.
6. A machine as claimed in claim 2 wherein the computer creates a draft objects of the invention based on the qualities of benefits.
7. A machine as claimed in claim 1 wherein the computer compiles a draft completed patent application based on the sections and predetermined text.

8. A method for drafting a patent application having at least claims, a summary of the invention, an abstract of the disclosure, and a detailed description of a preferred embodiment of the invention, said method comprising the steps of:

requesting and, if appropriate, storing information regarding the invention including at least 1) primary elements (PE) of the invention that define the invention apart from prior technology 2) secondary elements (SE) of the invention that may be important but not necessary to define over the prior technology and 3) substitute elements (SUB) of the invention that may substitute or modify the PE and SE in an effort to avoid but not depart from the invention;

requesting and, if appropriate, storing PE, SE and SUB before drafting the claims;

drafting the claims before drafting the summary of the invention, abstract, and the detailed description of a preferred embodiment of the invention; and

drafting the sections in a predetermined order prohibiting jumping ahead to draft a latter section.

9. A method as claimed in claim 8 further comprising the step of:

requesting and, if appropriate, storing information regarding the invention further including at least 4) qualities and benefits (QAB) of the invention over the prior technology wherein the QAB are requested and stored before drafting objects of the invention.

10. A method as claimed in claim 8 wherein a computer creates a draft independent claim based on the primary elements.



11. A method as claimed in claim 8 wherein a computer creates a draft summary of the invention based on at least the primary elements.
12. A method as claimed in claim 8 wherein a computer creates a draft abstract of the disclosure based on at least the primary elements and secondary elements.
13. A method as claimed in claim 9 wherein a computer creates a draft objects of the invention based on the qualities of benefits.
14. A method as claimed in claim 8 wherein a computer compiles a draft completed patent application based on the sections and predetermined text.

15. A system for describing an innovation comprising:
- an input to a computer memory for storage of information regarding a plurality of sections of a technical description;
  - means for functionally linking said sections to one another in a predetermined fashion;
  - output from a computer of each of said sections for revision by a user;
  - storage of each revised section in said memory;
  - means for compiling said sections in a predetermined order; and
  - output from the computer of said compiled sections.

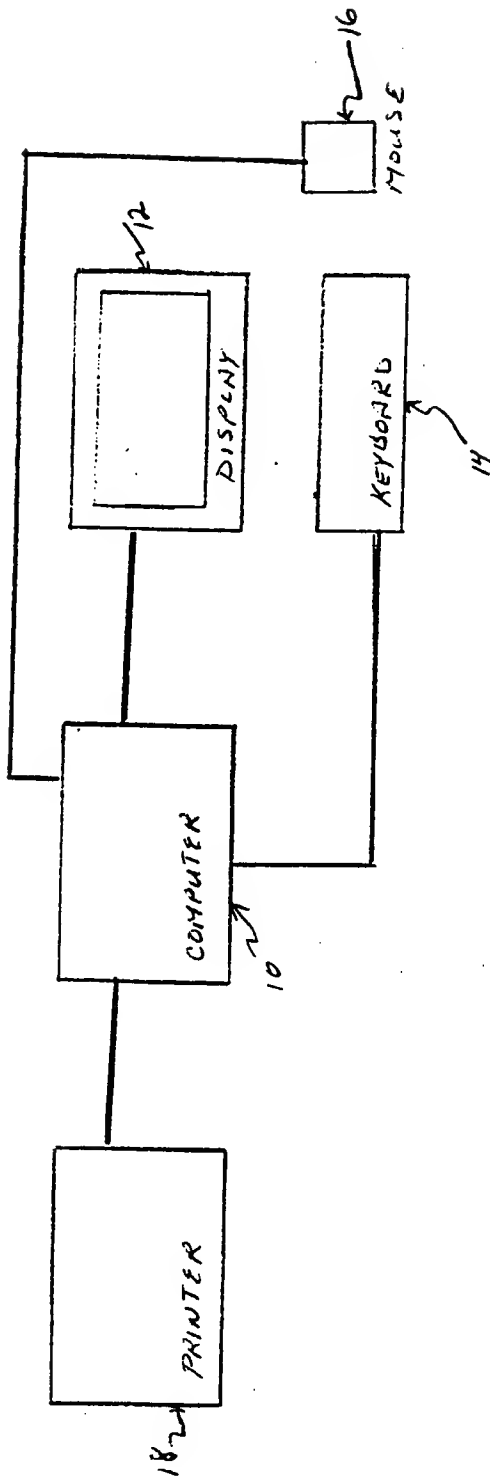


Figure 1

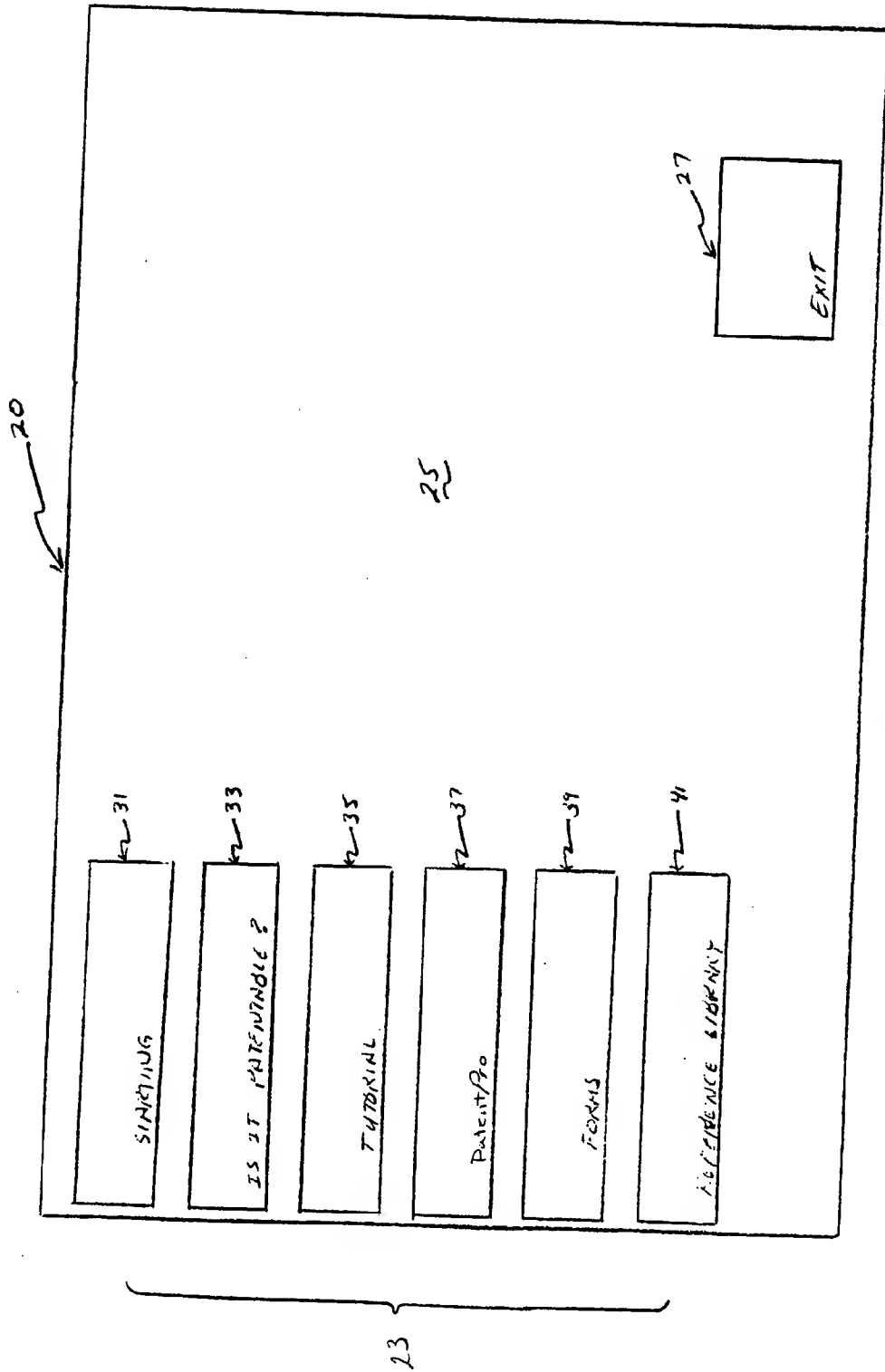


Figure 2

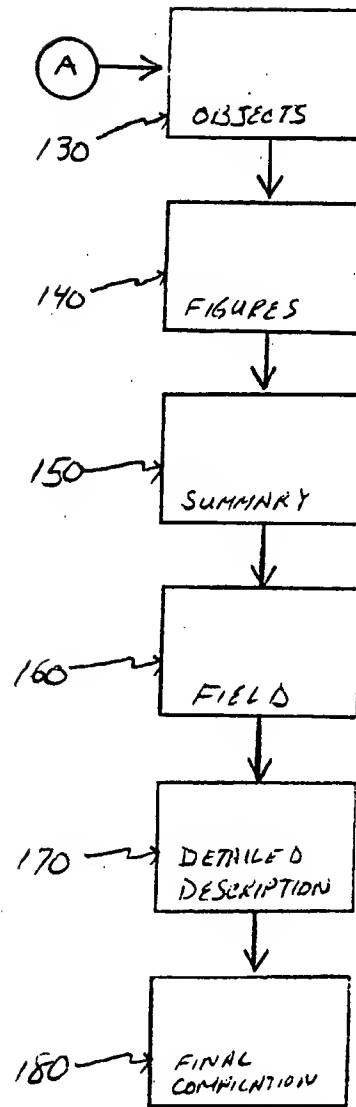
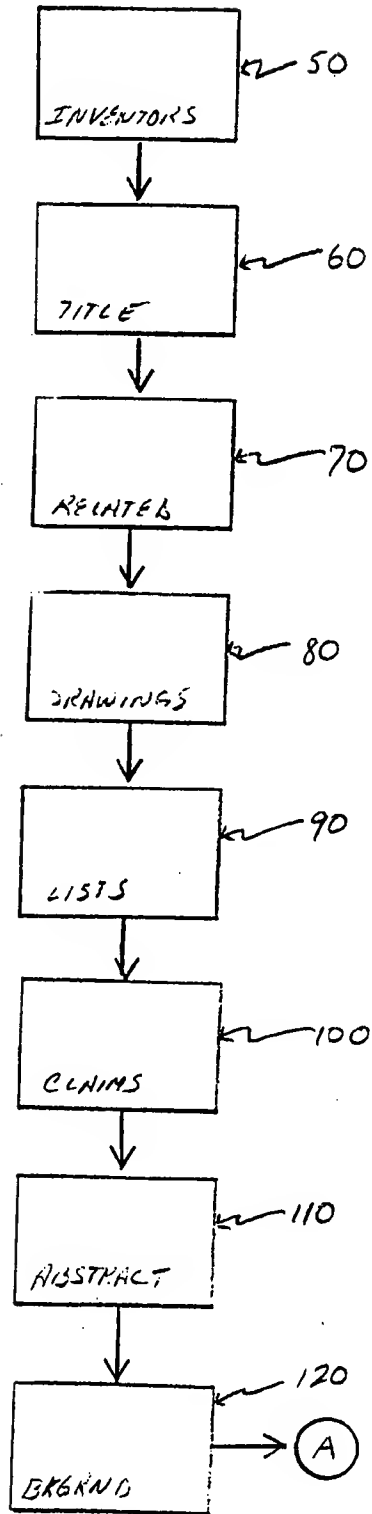


Figure 3

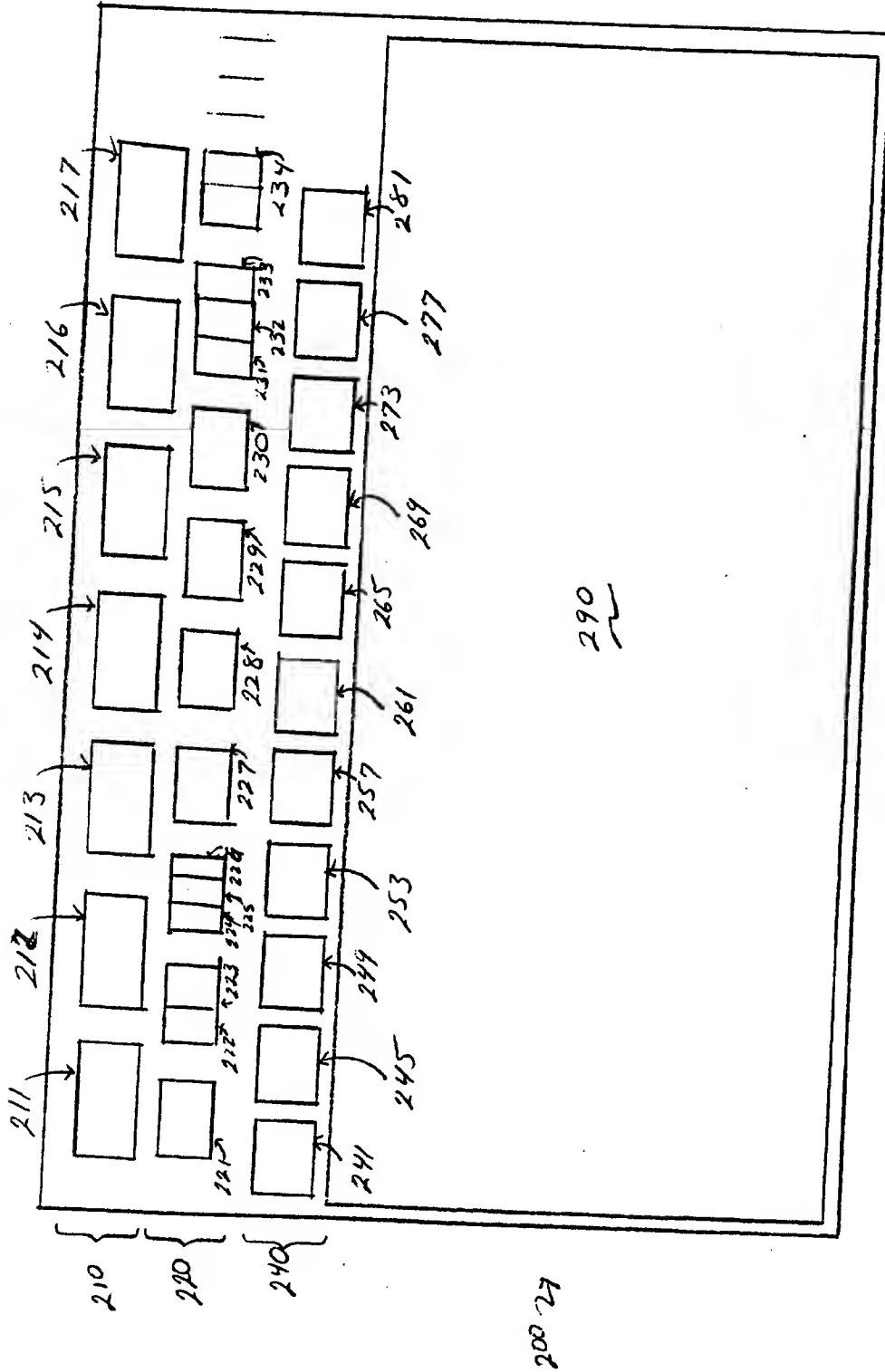


Figure 4